

# FPA-1000-UL Fire Alarm Control Panel

## Quick Guide



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### Top Benefits of the FPA-1000-UL

- ▶ Unbeatable value, offering best price/feature ratio in its class
- ▶ Reduced installation time and costs with minimal plug-in modules
- ▶ Convenient internet access with built-in, self-contained web server and dedicated web pages
- ▶ Built-in Digital Alarm Communicator Transmitter (DACT) and Conettix IP Alarm Over IP reporting as standard – no need to purchase extra modules or parts to get IP communication
- ▶ Consistency in service parts and inventory by using Bosch's own option bus feature built-in, which uses the same accessories as the FPD-7024
- ▶ Meets the need for carbon monoxide and other toxic gas detection in one panel with UL listed gas detection
- ▶ Simple installation and programming, thanks to simple design and engineering
- ▶ Easy operation and understanding during emergency events with smart design keypad featuring larger buttons and symbols



### Features

- ▶ Up to two analog addressable Signaling Line Circuits (SLC) configurable as: Four Class B Style 4 or Two Class A Style 6 or 7
- ▶ Up to 127 detectors and modules per SLC Loop for a total of 254 addresses
- ▶ Uses standard wire – no shielded or twisted pair required on SLCs
- ▶ Programmable sensitivity levels per device and automatic day and night sensitivity modes
- ▶ Automatic calibration and drift compensation routine
- ▶ 120/240 VAC power; total 5.5 A transformer output
- ▶ Two integrated Notification Appliance Circuits (NAC) rated at 2.5 A each, allowing up to 4 Amps of current (shared among auxiliary power, option bus and NAC)
- ▶ Up to four addressable Remote NAC Boosters, providing auxiliary power and up to 16 synchronized remote NAC circuits
- ▶ Mainboard NAC patterns include Steady, Pulsing, Temporal Code 3 and Temporal Code 4
- ▶ Built-in synchronization protocol for notification devices: Wheelock™ and System Sensor®
- ▶ Three programmable Form C relays on the mainboard (fire, trouble, supervisory, gas alarm and activation by zone)
- ▶ Option bus for optional boards and expansions including LCD/LED annunciators, Octal Driver Module, Octal Relay Module and Remote NAC Booster
- ▶ Optional FPE-1000-CITY City Tie Plug-in Module with two circuits, each programmable to Local Energy or Reverse Polarity
- ▶ Built-in Ethernet interface for Conettix IP reporting and/or programming and diagnostics
- ▶ Built-in dual phone line: public switched telephone network (PSTN) and IP DACT communicator
- ▶ Contact ID, SIA 300 and Modem IIIa2 reporting formats
- ▶ Positive Alarm Sequence
- ▶ Pre-Signal

### Ease of use and functionality

- ▶ Large 4-line by 20-character LCD display
- ▶ Six LED status indicators on each panel keypad or remote LCD annunciator, including gas alarm LED
- ▶ Menu-driven user interface on panel
- ▶ Easy programming from panel keypad
- ▶ Browser-based user interface for programming and diagnostics on a networked PC with Microsoft® Windows® XP and Microsoft® Windows® Vista or Unix/Linux based operating system – no software installation required
- ▶ 4 Programmable authority levels secured with a user-definable, four-digit PIN
- ▶ 128 software zones for flexible input-output mapping
- ▶ Auto Learn feature for easy start-up programming
- ▶ Local piezo sounder
- ▶ Fire drill test function
- ▶ Walk test function
- ▶ Alarm verification feature
- ▶ Bypass or unbyypass points, outputs or zones individually
- ▶ 1000 events history buffer
- ▶ Event and history printing via network printer
- ▶ Three languages built-in (English, Spanish and Portuguese), software configurable, LED and keypad labeling easily exchangeable

### Listings and Approvals

- ▶ UL Listed 864 9th edition
- ▶ FM (pending)
- ▶ CSFM
- ▶ MEA (pending)
- ▶ FCC parts 15, digital devices and part 68 phone connections

# FPA-1000-UL Fire Alarm Control Panel

## Quick Guide – Accessories



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### Option Bus Accessories



#### FMR-1000-RCMD Remote Command Center

Remote operational terminal of the FPA-1000-UL panel, providing buttons for silence, reset, acknowledge and drill. Features scrolling keys, key switch with 1358 key and built-in piezo sounder.



#### FMR-1000-RA Remote Annunciator

Remote LCD annunciator featuring acknowledge key. Includes scrolling keys and built-in piezo sounder.



#### D7032 Eight-Zone LED Annunciator Expander

Attaches to a D7030X, D7030X-S2 or D7030X-S8. Identifies the location of a fire alarm for eight additional zones, showing 16 LED zones in the D7030X/D7032 combination.



#### D7048/B Octal Driver Modules

The outputs are fully programmable and can be activated by system events. These outputs have the same programming options as the local relays. Each output operates independently of the other seven to provide complete flexibility.



#### D7035/B Octal Relay Module

The FPA-1000-UL supports up to two Octal Relay Modules. The outputs are fully programmable and can be activated by system events. These outputs have the same programming options as the local relays. Each output operates independently of the other seven to provide complete flexibility.



#### D7030X LED Annunciator

Identifies the location of a fire alarm for up to eight zones allowed per system.

#### D7030X-S2 LED Annunciator

Features two zones reserved for supervisory functions. Incorporates power and trouble LEDs plus eight-zone LEDs that can be individually labeled.

#### D7030X-S8 LED Annunciator

Features eight zones reserved for supervisory functions. Incorporates power and trouble LEDs plus eight-zone LEDs that can be individually labeled.

### Control Panel Accessories



#### FPP-RNAC-8A-4C Remote Notification Appliance Circuit Power Supply

The FPP-RNAC-8A-4C Remote NAC Booster adds four additional Notification Appliance Circuits: NFPA 72, Class B (Style Y) or Class A (Style Z) to the fire panel or serves as a power supply for fire protective signaling systems.



#### D126 (12v 7ah), D1218 (12v 18ah), D1224 (12v 24ah), D1238 (12 38ah) Secondary Battery

2 x 12 V, 18 Ah maximum within enclosure or 40 Ah maximum external.



#### BATB-40 / BATB-80 Battery Box

Provides a single level (two-battery capacity) of battery storage with an optional shelf that increases the battery capacity to four batteries. BATB-80 includes a mounted shelf that holds up to four batteries.



#### FPM-1000-SFMK Semi-flush Mounting Kit

Includes trim ring and mounting accessories.



#### FPE-1000-SLC Signaling Line Circuit Module

Provides a Signaling Line Circuit for connection of analog DCP devices to the FPA\_1000\_UL Compact Fire Panel. A second Signaling Line Circuit can easily be added by plugging in the FPE-1000-SLC to the mainboard. Nominal 39 V DC (30 to 40 V DC), 200 mA maximum (per SLC), power-limited, supervised.



#### FPE-1000-CITY City Tie Plug-in Module

Provides two circuits that can be programmed as Local Energy or Reverse Polarity module.

### Programming Tool



#### D7050: Analog Device Programmer

Handheld device that programs address settings on EEPROM programmable analog devices. Includes base for detector head programming and two-module program adapter for module programming (for 4-in or single-gang back box). Shows the current analog value of a connected detector.

### Initiating Devices



#### FAA-325-B6 Analog Detector Base

Compatible with all analog addressable detectors that use the advanced analog communication protocol, except the ALG-DH. 6 in (15 cm) diameter.

#### FAA-325-B4 Analog Detector Base

Compatible with all analog addressable detectors that use the advanced analog communication protocol, except the ALG-DH. 4 in (10cm) diameter.



#### FAP-325 Analog Photoelectric Smoke Detector

Detects optically dense smoke typical of fires involving materials such as soft furnishings, plastic and foam, which tend to smolder and produce large, visible smoke particles.



#### FAH-325 Analog Heat Detector

Detects heat in environments where smoke detectors are unsuitable because of the presence of system or cooking fumes, such as a kitchen.



#### FAI-325 Analog Ionization Smoke Detector

For use in areas where early warning of superheated or flaming combustibles is expected. Also designed for use where outside Radio Frequency Interference (RFI) and other electrical interference are expected.



#### FAA-325-B6S Analog Sounder Base

Contains an addressable sounder that provides an audible alarm in the immediate vicinity. Compatible with all analog addressable detectors that use the advanced analog communication protocol, except the ALG-DH. Auxiliary powered. The Analog Sounder base's address is programmed automatically. (For this device, the address of the mounted detector plus 127 come up to the sounder base address.)



#### FFAD-325 Series Analog Duct Smoke Detector

Provides early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial and residential applications.

#### Three types available:

- ▶ FAD-325-DH Analog Duct Smoke Detector Replacement Head
- ▶ FAD-325 Analog Duct Smoke Detector (with Housing)
- ▶ FAD-325-R Analog Duct Smoke Detector with two Relays (with Housing)

#### Accessories

- ▶ FAA-325-2.5 Testing Tube, 2.5 ft length
- ▶ FAA-325-5 Testing Tube, 5 ft length
- ▶ FAA-325-10 Testing Tube, 10 ft length



#### FMM-325A/FMM-325A-D Analog Manual Pull Station

Fast response contact monitor module mounted in a corrosion-resistant, rugged, die-cast housing for single-gang mounting. Loop powered.

### Input/Output Modules



#### FLM-325-CZM4 Conventional Zone Module

Monitors dry contacts (NO) devices such as two-wire conventional detectors and pull stations. Transmits the status of one zone of devices back to the panel (25 maximum per zone; number depends on type of connected devices). Class A or Class B wiring is configured with a jumper on the module. Auxiliary powered. The number of Conventional Zone Modules (CZM) per SLC module is limited to 64.



#### FLM-325-2I4 Dual Input Monitor Module

Provides two independent contact monitoring circuits while utilizing only one address on the SLC. Can be programmed to monitor normally open or normally closed contact fire alarm and supervisory devices (NO EOL, NC EOL, NC no EOL). Supervises with Style B (Class B). Loop powered.



#### FLM-325-2R4 Dual Relay Module

Allows independent control of two Form C contacts (rated for 1.0 A at 30 VDC or 0.5 A at 125 VDC) for a variety of normally open (NO) and normally closed (NC) contact applications such as fan operation, elevator recall, door closure and auxiliary notification. Loop powered.



#### FLM-325-ISO Short Circuit Isolator

Isolates a shorted section on a specific polling circuit from the rest of the system to minimize the loss of devices.



#### FLM-325-N4 Supervised Output Modules

Provide a supervised pole reversal output used for acoustic and optical signaling devices or to trigger a Remote NAC Booster. Require a 24 VDC auxiliary input voltage. The output relay is rated to supply 2 A at 30 VDC. Provide Steady, Pulsing and Temporal Code 3 output pattern.



#### FLM-325-I Series Fast Response Contact Monitor Modules

Designed for use with pull stations, water flow switches and other applications requiring the monitoring of dry contact alarm initiating devices. Can be programmed in NO EOL, NC EOL, NC no EOL.

#### Three types available:

- ▶ FLM-325-I4 with 4-in Back Box
- ▶ FLM-325-IS with Terminal Screws (future release)
- ▶ FLM-325-IW with Pigtail (future release)